

AMENDMENTS TO CLAIMS

The following is a complete listing of all claims presently in the application, wherein new Claims 33-44 are added:

1. (original) In combination, (1) a thermal printhead and (2) an inkjet printhead, both mounted in an inkjet printer, said inkjet printhead configured for printing inkjet ink to form images on a sheet of print media, said print media including a sealable porous topcoat on an ink-receiving microporous layer, said thermal printhead adapted to seal said sealable porous topcoat by providing a source of heat to said sealable porous surface coat following said printing of images.

2. (original) The combination of Claim 1 wherein said inkjet printhead is supported and moved on a carriage across a scan axis, along a print zone, perpendicular to a direction of print media advance and wherein said thermal printhead is positioned with said inkjet printhead on said carriage to seal said sealable porous surface coat following printing of said image.

Claims 3-10 (canceled)

11. (original) In combination, (1) a thermal printhead, (2) an inkjet printhead, both mounted in an inkjet printer, said inkjet printhead configured for printing inkjet ink to form images on a sheet of print media, and (3) said print media including a sealable porous surface coat on an ink-receiving microporous layer, said thermal printhead adapted to seal said sealable porous surface coat by providing a source of heat to said sealable porous surface coat following said printing of images.

12. (original) The combination of Claim 11 wherein said inkjet printhead is supported and moved on a carriage across a scan axis, along a print zone, perpendicular to a direction of print media advance and wherein said thermal printhead is positioned with said inkjet printhead on said carriage to seal said sealable porous surface coat following printing of said image.

Claims 13-20 (canceled)

21. (original) The combination of Claim 11 wherein said at least one ink-receiving layer comprises at least one pigment and at least one binder.

22. (original) The combination of Claim 21 wherein said at least one pigment is selected from the group consisting of highly porous silica, alumina, hydrates of alumina, titania, zirconia, base metal oxides, carbonates, glass beads, and hard ball, wherein said at least one binder is selected from the group consisting of gelatin, polyvinyl pyrrolidone, water-soluble cellulose derivatives, polyvinyl alcohol and its derivatives, polyacrylamide, polyacrylic acid, water-soluble acrylic acid co-polymers, and wherein said at least one ink-receiving layer has a porosity within a range of 25 to 28 cm³/m².

23. (original) The combination of Claim 11 wherein said sealable porous top-coat comprises either a binder selected from the group consisting of gelatin, polyvinyl pyrrolidone, water-soluble cellulose derivatives, polyvinyl alcohol and its derivatives, polyacrylamide, polyacrylic acid, water-soluble acrylic acid co-polymers, or a pigment comprising a film-forming latex, and wherein said topcoat has a pore size in a range of about 4 to 15 nm.

Claims 24-25 (canceled)

26. (original) In combination, (1) a thermal printhead, (2) an inkjet printhead, both mounted in an inkjet printer, said inkjet printhead configured for printing inkjet ink to form images on a sheet of print media, and (3) said print media including a sealable porous surface coat on an ink-receiving microporous layer, said thermal printhead adapted to seal said sealable porous surface coat by providing a source of heat to said sealable porous surface coat following said printing of images, wherein said at least one ink-receiving layer comprises at least one pigment and at least one binder and wherein said at least one pigment is selected from the group consisting of highly porous silica, alumina, hydrates of alumina, titania, zirconia, base metal oxides, carbonates, glass beads, and hard ball, wherein said at least one binder is se-

lected from the group consisting of gelatin, polyvinyl pyrrolidone, water-soluble cellulose derivatives, polyvinyl alcohol and its derivatives, polyacrylamide, polyacrylic acid, water-soluble acrylic acid co-polymers, and wherein said at least one ink-receiving layer has a porosity within a range of 25 to 28 cm³/m².

27. (original) The combination of Claim 26 wherein said inkjet printhead is supported and moved on a carriage across a scan axis, along a print zone, perpendicular to a direction of print media advance and wherein said thermal printhead is positioned with said inkjet printhead on said carriage to seal said sealable porous surface coat following printing of said image.

28. (original) The combination of Claim 26 wherein said sealable porous top-coat comprises either a binder selected from the group consisting of gelatin, polyvinyl pyrrolidone, water-soluble cellulose derivatives, polyvinyl alcohol and its derivatives, polyacrylamide, polyacrylic acid, water-soluble acrylic acid co-polymers, or a pigment comprising a film-forming latex, and wherein said topcoat has a pore size in a range of about 4 to 15 nm.

29. (previously presented) In combination, (1) a thermal printhead, (2) an inkjet printhead, both mounted in an inkjet printer, said inkjet printhead configured for printing inkjet ink to form images on a sheet of print media, and (3) said print media including a sealable porous surface coat on an ink-receiving microporous layer, said thermal printhead adapted to seal said sealable porous surface coat by providing a source of heat to said sealable porous surface coat following said printing of images, wherein said sealable porous topcoat comprises either a binder selected from the group consisting of gelatin, polyvinyl pyrrolidone, water-soluble cellulose derivatives, polyvinyl alcohol and its derivatives, polyacrylamide, polyacrylic acid, water-soluble acrylic acid co-polymers, or a pigment comprising a film-forming latex, and wherein said topcoat has a pore size in a range of about 4 to 15 nm.

30. (previously presented) The combination of Claim 26 wherein said inkjet printhead is supported and moved on a carriage across a scan axis, along a print zone, perpendicular to a direction of print media advance and wherein said thermal

printhead is positioned with said inkjet printhead on said carriage to seal said sealable porous surface coat following printing of said image.

31. (previously presented) The combination of Claim 29 wherein said at least one ink-receiving layer comprises at least one pigment and at least one binder.

32. (previously presented) The combination of Claim 31 wherein said at least one pigment is selected from the group consisting of highly porous silica, alumina, hydrates of alumina, titania, zirconia, base metal oxides, carbonates, glass beads, and hard ball, wherein said at least one binder is selected from the group consisting of gelatin, polyvinyl pyrrolidone, water-soluble cellulose derivatives, polyvinyl alcohol and its derivatives, polyacrylamide, polyacrylic acid, water-soluble acrylic acid copolymers, and wherein said at least one ink-receiving layer has a porosity within a range of 25 to 28 cm³/m².

33. (new) The combination of Claim 1 wherein said thermal printhead is configured to apply heat only to areas that have been printed, thereby minimizing energy required to seal said porous topcoat.

34. (new) The combination of Claim 33 wherein said thermal printhead has a height that is at least equal to a swath height of said inkjet printhead divided by the number of passes made by said inkjet printhead.

35. (new) The combination of Claim 2 wherein said thermal printhead is positioned downstream of said inkjet printhead relative to said print zone.

36. (new) The combination of Claim 11 wherein said thermal printhead is configured to apply heat only to areas that have been printed, thereby minimizing energy required to seal said porous topcoat.

37. (new) The combination of Claim 36 wherein said thermal printhead has a height that is at least equal to a swath height of said inkjet printhead divided by the number of passes made by said inkjet printhead.

38. (new) The combination of Claim 12 wherein said thermal printhead is positioned downstream of said inkjet printhead relative to said print zone.

39. (new) The combination of Claim 26 wherein said thermal printhead is configured to apply heat only to areas that have been printed, thereby minimizing energy required to seal said porous topcoat.

40. (new) The combination of Claim 39 wherein said thermal printhead has a height that is at least equal to a swath height of said inkjet printhead divided by the number of passes made by said inkjet printhead.

41. (new) The combination of Claim 27 wherein said thermal printhead is positioned downstream of said inkjet printhead relative to said print zone.

42. (new) The combination of Claim 29 wherein said thermal printhead is configured to apply heat only to areas that have been printed, thereby minimizing energy required to seal said porous topcoat.

43. (new) The combination of Claim 42 wherein said thermal printhead has a height that is at least equal to a swath height of said inkjet printhead divided by the number of passes made by said inkjet printhead.

44. (new) The combination of Claim 30 wherein said thermal printhead is positioned downstream of said inkjet printhead relative to said print zone.